

CLAIMS

1. A method for preparing a resinate comprising the steps of:

- 5 a. blending a poorly water soluble active substance with a resin
and a solvent selected from the group consisting of water, a water
miscible solvent, a water-immiscible solvent or mixtures thereof
to form an active substance/resin/solvent mixture;
- 10 b. maintaining said mixture, at a pressure and temperature that
maintains said mixture in the liquid state, for 1 second to 48
hours.

2. A method for preparing a resinate comprising steps of:

- 15 a. blending a water soluble active substance with a resin and a
solvent selected from the group consisting of a water miscible
solvent, a water-immiscible solvent or mixtures thereof to form
an active substance/resin/solvent mixture;
- 20 b. maintaining said mixture, at a pressure and temperature that
maintains said mixture in the liquid state, for 1 second to 48
hours.

25 3. A method according to Claim 1, wherein the poorly water soluble
active substance is selected from the group consisting of indomethacin,
nelfinavir, and midazolam.

4. A method according to Claim 3, wherein the solvent is a water
immiscible solvent.

5. A method according to Claim 4, where in the active substance is loaded at 5-100% of the ion exchange capacity of the resin.
6. A method according to Claim 2, where in the water soluble active substance is nicotine.
7. A method according to Claim 6, wherein the solvent is a water immiscible solvent .
8. A method according to Claim 7, where in the active substance is loaded at 100% of the ion exchange capacity of the resin.
9. A method according to claim 1 or claim 2, wherein said active substance is a naturally occurring or a synthetic material.
10. A method according to claim 9, wherein said active substance is selected from nutraceuticals, biologically active extracts of botanical materials, flavours and fragrances.
11. A method according to any of claims 1, 2, 9 or 10, wherein said solvent comprises a C₁ to C₄ fluorinated hydrocarbon.
12. A method according to claim 11, wherein said fluorinated hydrocarbon includes carbon, fluorine and hydrogen atoms only.
13. A method according to claim 11, wherein said fluorinated hydrocarbon is tetrafluoroethane.
14. A method according to any preceding claim, which includes separating a resinate comprising active substance/resin from solvents after step b.

15. A method of preparing a resinate comprising the steps of:

- (a) blending an active substance with a resin and a solvent to form an active substance/resin/solvent mixture; and
- 5 (b) separating a resinate comprising active substance/resin from solvents.

16. A method according to claim 15, wherein said solvent is a fluorinated hydrocarbon solvent.

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17. A method according to any preceding claim, wherein, in the method, at least 0.5kg of active substance is blended with solvent in step a.

18. A resinate comprising an active substance in combination with a resin, wherein the resinate includes a trace of a fluorinated hydrocarbon solvent.

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19. A formulation comprising a resinate prepared in the method according to any of claims 1 to 17 or as described in claim 18, wherein the formulation includes at least 0.25 wt% of resinate.

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20. A formulation according to claim 19 which comprises said resinate in combination with another solid or liquid.

21. A method of preparing a formulation which comprises contacting a resinate prepared in a method according to any of claims 1 to 17 or being as described in any of claims 18 to 20 with another solid or liquid.

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